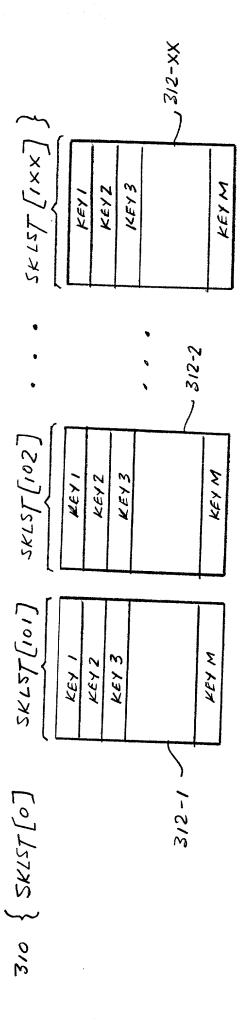


F1G. 2

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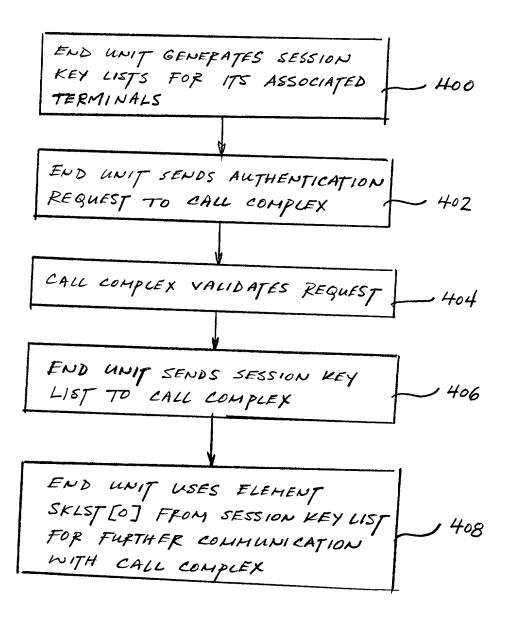


FIG. 4

Land I Init	End Unit _{Session} κ_{ey} = Random() ESKe = Encrypt (End Unit _{Session} κ_{ey}) End Unit _{Private} κ_{ey} EEUIDe = Encrypt (End Unit Identification) Call Complex _{Public} κ_{ey} SendAuthenticationReaf EFIIDe FSKe)		SKLSTe = Encrypt(GenerateSessionKeyListForEndUnit())End Unit Session Key SendSessionKeyList(SKLSTe)	End Unit Session Key =SKLST[0]
-	+	↑		
Call Complex		Identify Request (Validate request; if it is not valid, drop it) End Unit Identification = Decrypt(EEUIDe) Call Complex Private Key If (End Unit Identification) exists get End Unit Paulic Key End Unit Session Key = Encrypt (End Unit Session Key) End Unit Paulic Key ACKe = Encrypt(ACK) End Unit Session Key CreateSessionInformation(IP Address, End Unit Identification) SendRegistrationAcknowledgment(ACKe)		SKLS I = Decrypt(SKLSTe) End Unit session key = SKLST[0] ACKe = Encrypt(ACK) End Unit session key SendSessionKeyListAcknowledgment(ACKe)

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Call Complex		End Unit 1
	+	CallRequestTo(Extension 201, Extension 105) End Unit Session Key
If incoming Request IP Address not registered, drop the request End Unit session Key = Find Session Key for IP(Request IP Address) Call Request Data = Decrypt (Incoming Buffer) End Unit session Key If Plaintext Buffer does not contain End Unit Registration name, drop the request		
Call Complex		End Unit 2
EUEUSK = SKLST[105] Message Key = get_key_for_extension(201) SendIncommingCallRequest(Encrypt (oIP,201,105,EUEUSK) Message Key)	↑	
	\	If Incoming Request IP Address not Call Complex, drop the request Plaintext Buffer = Decrypt(Incoming Buffer) End Unit Session Key If Plaintext Buffer does not contain End Unit Registration name, drop the request Set EUEUSK Set EUEUSK SendCallAcceptedInformation(RTP info) Unit Session Key
End Unit 1		End Unit 2
SendVoicePacket(Encrypt(Plaintext Buffer) EUEUSK) ReceiveVoicePacket(Decrypt(Incoming Buffer)) EUEUSK)	†	ReceiveVoicePacket(Decrypt(Incoming Buffer)) EUEUSK) SendVoicePacket(Encrypt(Plaintext Buffer) EUEUSK)

716,6A

End Unit 1		Call Complex
ConfRequestTo(Extension 311, Extension 105) End Unit Session Key	↑	If incoming Request IP Address not registered, drop the request
		End Unit session Key = Find Session Key for IP(Request IP Address) Call Request Data = Decrypt (Incoming Buffer) End Unit session Key
		If Incoming Buffer does not contain End Unit Registration name, drop the request
End Unit 3		Call Complex
	\	EUEUSK = SKLST[105] Message Key = get_key_for_extension(311)
		SendIncommingConfRequest(Encrypt (oIP,511,105,EUEUSK) Message Key)
If Incoming Request IP Address not Call Complex, drop the request Buffer = Decrypt(Incoming Buffer) End Unit session Key If Plaintext Buffer does not contain End Unit Registration name, drop the		
request Set EUEUSK		
SendConfAcceptedInformation(RTP info) Unit Session Key		
End Unit 3		End Unit 1
SendVoicePacket(Encrypt(Plaintext Buffer) EUEUSK) ReceiveVoicePacket(Decrypt(Incoming Buffer)) EUEUSK)	‡	Receive Voice Packet (Decrypt (Incoming Buffer)) EUEUSK) Send Voice Packet (Encrypt (Plaintext Buffer) EUEUSK)
End Unit 3		End Unit 2
SendVoicePacket(Encrypt(Plaintext Buffer) EUEUSK) ReceiveVoicePacket(Decrypt(Incoming Buffer)) EUEUSK)	†	ReceiveVoicePacket(Decrypt(Incoming Buffer)) Eueusk) SendVoicePacket(Encrypt(Plaintext Buffer) Eueusk)

716,6B

Call Complex	If Incoming Request IP Address not registered, drop the request End Unit Session Key = Find Session Key for IP(Request IP Address) Call Request Data = Decrypt (Incoming Buffer) End Unit Session Key If Plaintext Buffer does not contain End Unit Registration name, drop the request	Call Complex	DropSession(Extension 311) End Unit session Key
	↑		\
End Unit 1	DropSession(Extension 311) End Unit session Key	End Unit 3	CleanŲp()

716,6C

End Unit 2		1 3
		田正之
		SendNewSessionKeyRequest(Encrypt (oIP, 201, 105, EUEUSK) Message Key)
If incoming Request IP Address not Call Complex, drop the request Plaintext Buffer = Decrypt(Incoming Buffer) End Unit session key If Plaintext Buffer does not contain End Unit Registration name, drop the		•
request Set EUEUSK to EUEUSK-NEW SendConfForNewSessionKeyRequest() Unit session Key		
End Unit 1		End Unit 2
SendVoicePacket(Encrypt(Plaintext Buffer) eveusk.new) ReceiveVoicePacket(Decrypt(Incoming Buffer)) eveusk.new)	†	ReceiveVoicePacket(Decrypt(Incoming Buffer)) EUEUSK -NEW) SendVoicePacket(Encrypt(Plaintext Buffer) EUEUSK-NEW)
End Unit 1		End Unit 2
EndOfSession(Encrypt(Plaintext Buffer) EUEUSK-NEW)	1	CleanUp()
Call Complex		
	\	End Unit 105 session key = Random() // Create a new session key for 105 EUSKe = Encrypt (EUSN, End Unit 105 session key) End Unit Private key SendSessionKey(EUSKe)
If incoming Request IP Address not registered, drop the request End Unit s _{casion} Key Find Session Key for IP(Request IP Address) Call Request Data = Decrypt (Incoming Buffer) End Unit s _{casion} Key If Plaintext Buffer does not contain End Unit Registration name, drop the		
request Update SKLST[105] = End Unit 105 session κ_{cy} // This is a stack operation; new key is first available key in the stack		
	\	End Unit 105 session k_{cy} = Random() // Create a second new session key for 105 EUSKe = Encrypt (EUSN, End Unit 105 session k_{cy}) End Unit p_{tivate} k_{cy} SendSessionKey(EUSKe)
If incorning Request IP Address not registered, drop the request End Unit session key. Find Session Key for IP(Request IP Address) Call Request Data = Decrypt (Incoming Buffer) End Unit session key If Plaintext Buffer does not contain End Unit Registration name, drop the		
request Update SKLST[105] = End Unit 105 Session Key // This is a stack operation; new key is first availible key in the stack		

F16. 6D